LING/ANTH 301: Phonetics
Rice University
Spring 2018

Class Meeting Times: T, Th 10:50 am-12:05 pm **Location:** HUM 119
Instructor: Dr. David Durian **Email:** david.durian@rice.edu **Phone:** 713-348-2956
Office Location/Hours: HRG 207/T, Th-12:15 pm-1:15 pm; and by appointment
TA: Ms. Elise Lahoud **Email:** elise.m.lahoud@rice.edu
Office Location/Hour: HRG 202/W-1:00pm-2:00pm

Required Texts and Free Software Programs:

1) Johnson, Keith. (2012). *Acoustic and auditory phonetics*. 3rd edition. Malden, MA: Wiley-Blackwell.
2) Ladefoged, Peter & Keith Johnson. (2014). *A course in phonetics*. 7th edition. Belmont, CA: Wadsworth Publishing.
3) PDFs of 2 Chapters from Erik Thomas's *Sociophonetics: An Introduction* (2011) to be posted to the Online Reserves system (Ares) at Fondren Library.
4) The free software program PRAAT. (To be used to complete assignments.)

Prerequisites: LING 200 OR ANTH 200

Course Description:

Introductory study of sound as it relates to speech and sound systems in the world's languages. Speech sounds are examined in terms of production mechanisms (articulatory phonetics), propagation mechanisms (acoustic phonetics), and perception mechanisms (auditory phonetics). Includes a basic introduction to Digital Signal Processing.

Credit cannot be earned for LING 301 and LING 501.

Course Objectives and Learning Outcomes:

Upon completion of this course, students will have learned the basic concepts, vocabulary, and analytic techniques of modern phonetic analysis. Students will have gained experience with hands-on data analysis and data collection techniques, including the use of modern computational tools for acoustic analysis. As well, students will gain valuable insights into phonetic theory, the acoustics of sound production, and the physical articulation of sound. In addition, students will gain a deeper understanding of the perceptual/auditory study of phonetics.

Course Requirements:

1. *Reading Assignments:* Students should read each chapter, essay, or article (at least once) before the date listed on the syllabus. Discussion of these readings is the main focus of learning in this course, so being prepared is extremely important. The class will be much more informative and enjoyable if every one arrives having read and ready to discuss.

2. *Attendance and Class Participation:* In a class such as this one, each person's insights, questions, and thoughts are extremely valuable. You are expected to attend class and contribute to the discussion on a daily basis. Your level of participation will be reflected in your grade.

3. *Exams:* There will be a (2) Exams--a Mid-Term and a Final Exam. Make up exams are given only if you have a documented emergency, and only if you contact me before the exam is actually given. Please see the Course Schedule for dates and times of the exams.

4. *Homework Assignments*: There will be a series of 5 homework assignments given at various points during the semester, in which you will be asked to apply concepts you are learning about in class discussion and course readings. See the Course Schedule for due dates.

Homework Submission Policy:

Homework will be submitted electronically by 5pm on Fridays the week(s) it is due via Canvas. Homework must be submitted as either a .DOC or DOCX file. (Please note, this means Google Docs, Pages, .ODT, .TXT, .RTF, etc are not acceptable file formats for submission.) Late homework is not accepted, and it will receive a 0 if not submitted by 5pm the day it is due.

Grading Formula and Grading Scale:

The following grading formula will be used to calculate your final grade in this course:

Homework Assignments	50%
Exams (2 X 20% each)	40%
Participation	10%
	100%

Letter grades in this course will be assigned according to the following scale:

99-100: A+
92-98.9%: A
90-91.9%: A-
88-89.9: B+
82-87.9%: B
80-81.9: B-
78-79.9%: C+
72-77.9%: C
70-71.9%: C-
68-69.9%: D+
62-67.9%: D
60-61.9%: D-
0-59.9%: F

Note: Any questions about grade calculation clarifications must be raised within 7 days of grades being assigned. All questions concerning grading should be directed to Dr. Durian.

Absence Policy and Lectures:

There is no strict absence policy for this class, but please note frequent absences will impact your participation grade. Regular class attendance and active participation in discussions in class are essential for mastery of the material. If you miss class, please make arrangements with another student to receive notes on what was discussed in class that day. You of course can come to office hours to ask me questions about what you missed, as well, but also please note I will not reteach a missed lecture, and I also do not give out copies of my own lecture notes. Thus, if you miss, the best thing to do is get notes from a classmate, then come talk to me in office hours to ask any clarifying questions.

Course Canvas Site and Email Policy:

This course uses Canvas for the presentation of PDF readings, handouts, assignment prompts, and additional "bonus" materials that will help you understand course content. Please familiarize yourself with the Canvas course page and contact your computer college associates or the helpdesk in Mudd Hall if you get stuck or require assistance.

Also, please do check your @rice.edu email account daily for class announcements. In terms of contacting me, please do so at my @rice.edu account. I will try to respond within 24 hrs during the regular week and within 48 hours on the weekends. Please note, I do not answer emails after 9 pm, so if you have questions on homework assignments or exams, please plan accordingly.

Technology Policy:

The use of mobile devices and computers is permitted in the classroom for course-related purposes only, such as taking notes, accessing materials on Canvas, or conducting acoustic analysis using PRAAT and other tools. All personal uses of technology (such as texting, social media, shopping, watching videos, listening to music, working on assignments for other classes, etc.) are not permitted. Please silence all phones, and if you must take a call, leave the room to do so. If another student is distracting or disturbing you by inappropriate use of technology in the classroom, please politely ask them to stop, or let me know, and I will address the problem.

Student Conduct:

Students are expected to behave in a mature, responsible manner as discussed in the Rice Code of Student Conduct (http://sjp.rice.edu/current-code-of-student-conduct/). Appropriate conduct includes listening and responding respectfully to the opinions of others, turning off all portable music devices as well as setting cell phones, beepers, and pagers to vibrate, refraining from texting. Inappropriate conduct may result in the loss of points for class activities. Repeated or serious misconduct may result in disciplinary action, including removal from class.

Rice Honor Code:

In this course, all students will be held to the standards of the Rice Honor Code, a code that you pledged to honor when you matriculated at this institution. If you are unfamiliar with the details of this code and how it is administered, you should consult the Honor System Handbook at http://honor.rice.edu/honor-system-handbook/. This handbook outlines the University's expectations for the integrity of your academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process.

Appropriating someone else's work and portraying it as your own is cheating. Obtaining answers to exams from previous semesters is cheating. Working with anyone else on exams is cheating. Falsifying data or experimental results is cheating. (The foregoing is not intended to be a complete list.) If you are suspected of cheating, you will be referred to the Honor Council. If you are unsure about whether a specific action is cheating, please ask me.

Some general guidelines are:

- Do not copy information from sources without giving proper attribution (via a formal academic citation) to those sources
- Do not copy other (current or former) students' work
- Once you have started to work on your midterm or final exam, do not discuss it with other students, until after you (and they) have turned it in and the exam period has ended. No collaboration on exams is allowed.
- Homework is to be written up by each student on his or her own, and no collaboration on homework is allowed, unless otherwise noted in the directions for the assignment.

Students with Disabilities:

If you have a documented disability or other condition that may affect academic performance, you should: 1) make sure this documentation is on file with Disability Support Services (Allen Center, Room 111/ adarice@rice.edu/ X5841) to determine the accommodations you need; and 2) talk with me to discuss your accommodation needs. Please do so during the first couple weeks if possible, as this will make it easier for me to make adjustments to the course, if needed.

LING/ANTH 301: Daily Course Schedule (Spring 2018)

Readings marked *Course* are taken from *Course in Phonetics*. Those marked *AAP* are taken from *Acoustic & Auditory Phonetics*. Those marked * are PDFs posted to Ares. Exam Dates/Due Dates for Homework stated in **bold**. Readings are due on date assigned unless otherwise noted.

Date	Topic	Readings/Due Date
Week 1		
1/9	Introduction to the Course	Course Syllabus
1/11	Articulatory Phonetics--The Basics	*Course*, Ch 1
Week 2		
1/16	Phonology and Phonetic Transcription	*Course*, Ch 2
1/18	The Consonants of English	*Course*, Ch 3
1/19	**Homework #1 Due**	**Due by 5pm**
Week 3		
1/23	English Vowels	*Course*, Ch 4
1/25	English Words and Sentences	*Course*, Ch 5
Week 4		
1/30	Airstream Mechanisms and Phonation Types	*Course*, Ch 6
2/1	Place and Manner of Articulation	*Course*, Ch 7
2/2	**Homework #2 Due**	**Due by 5pm**
Week 5		
2/6	Syllables and Supersegmental Features	*Course,* Ch 10
2/8	**Spring Recess**	**No Class**
Week 6		
2/13	Linguistic Phonetics	*Course*, Ch 11
2/15	Introduction to Acoustic Phonetics	*Course,* Ch 8
Week 7		
2/20	Vowels and Vowel-Like Articulations	*Course,* Ch 9
2/22	Introduction to Acoustics	*AAP*, Ch 1
2/23	**Homework #3 Due**	**Due by 5pm**
Week 8		
2/27	**Mid-Term**	None
3/1	The Acoustic Theory of Speech Production	*AAP*, Ch 2

Week 9		
3/6	Digital Signal Processing, Part 1	*AAP*, Ch 3
3/8	Digital Signal Processing, Part 2	None
Spring Break		
3/12-3/14	SPRING BREAK	
Week 10		
3/20	Basic Audition	*AAP*, Ch 4
3/22	Speech Perception	*AAP*, Ch 5
3/23	**Homework #4 Due**	**Due by 5pm**
Week 11		
3/27	Vowel Analysis	*AAP*, Ch 6
3/29	More on Vowel Analysis	* *Thomas, 2011, Ch 5* (p. 138-159)
Week 12		
4/3	Vowel Normalization	* *Thomas, 2011, Ch 5* (p. 160-183)
4/5	Fricatives	*AAP*, Ch 7
Week 13		
4/10	Stops and Affricates	*AAP*, Ch 8
4/12	Liquids	*AAP*, Ch 9
Week 14		
4/17	Analyzing Prosody	* *Thomas, 2011, Ch 6* (p. 184-199)
4/19	More on Analyzing Prosody/Closing Thoughts	* *Thomas, 2011, Ch 6* (p. 200-223)
4/20	**Homework #5 Due**	**Due by 5pm**
Week 15: Finals Week		
5/2	**Final Exam (Take Home)**	**Due by 5pm**

A Final Note: I reserve the right to adjust this course syllabus as needed. Revisions to course policies will be communicated via university e-mail. Revisions to the course schedule will be communicated with as much advance notice as possible in class.